

Claims

1. A self-windable adhesive tape comprising a tape-shaped carrier (1) which consists of a knit (G) and has been provided on one side with a pressure-sensitive adhesive coating (2) which has been applied directly to the carrier (1) wherein the carrier (1) has a material thickness (D) in the range from 0.1 to 1.0 mm and a specific basis weight of 40-200 g/m² and is pileless, the adhesive coating (2) having a grammage of 20-150 g/m².
2. An adhesive tape according to claim 1, wherein the knit (G) of the carrier (1) is a warp knit.
3. An adhesive tape according to claim 1 or 2, wherein the specific basis weight of the carrier (1) is 70-110 g/m².
4. An adhesive tape according to any of claims 1 to 3, wherein the adhesive tape is hand tearable in the cross direction.
5. An adhesive tape according to any of claims 1 to 4, wherein the breaking strength in the longitudinal direction is at least 15 N/cm and is preferably in the range of 15-70 N/cm.
6. An adhesive tape according to any of claims 1 to 5, wherein the breaking extension in the longitudinal direction is not more than 60% and is preferably in the range of 10-25%.

7. An adhesive tape according to any of claims 1 to 6,
wherein the adhesive coating (2) comprises a natural or synthetic pressure-sensitive adhesive which comprises rubber or acrylate and is preferably UV crosslinkable.
8. An adhesive tape according to any of claims 1 to 7,
wherein the adhesive coating (2) has been applied atop the carrier at a grammage of not more than 65 g/m².
9. An adhesive tape according to any one of claims 1 to 8,
wherein the material thickness (D) of the carrier (1) is in the range from about 0.2 mm to 0.7 mm.
10. An adhesive tape according to any of claims 1 to 9,
wherein the carrier (1) has a stitch density of at least 80 per dm and preferably in the range from about 195 per dm to 250 per dm.
11. An adhesive tape according to any one of claims 1 to 10,
wherein the carrier (1) has a wale density of at least 80 per dm and preferably in the range from about 110 per dm to 150 per dm.
12. An adhesive tape according to any one of claims 1 to 11,
wherein the carrier (1) comprises polyester fiber yarn, preferably composed of PET, other synthetic fiber yarns, as of polyamide or polyacrylonitrile, or a blend fiber yarn of synthetic fibers, preferably PET/PA.

13. An adhesive tape according to any one of claims 1 to 12,
wherein the knit (G) is formed from a two-yarn system (3, 4).
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14. An adhesive tape according to any of claims 1 to 13,
wherein the lapping of the knit (G) is a plain lapping or a rib lapping, the surface of the carrier (1) being substantially smooth on that side to which the adhesive coating (2) is applied.
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15. An adhesive tape according to any of claims 1 to 14,
wherein the lapping of the knit (G) includes fixed stitches (MB) and is in particular describable in terms of a combination of threads (3) in a velvet construction and threads (4) in a pillar stitch construction.
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16. An adhesive tape according to any of claims 1 to 15,
wherein the linear density of the fibers (3, 4) of the knit (G) is in the range from about 20 dtex to 70 dtex, especially in the range from 25 to 55 dtex and more preferably in the range from 30 to 45 dtex.
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17. An adhesive tape according to any of claims 1 to 16,
wherein the adhesive tape has an EN 1939 bond strength on steel of more than 3 N/cm.
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